## DaimlerChrysler AG

## Patent Claims

1. A chassis and/or supporting structure (6) of a motor vehicle (19), in particular of a passenger vehicle, characterized by the chassis and/or the supporting structure (6) being designed as a hollow chamber sheet structure.

10

- 2. The chassis and/or supporting structure of a motor vehicle as claimed in claim 1, characterized in that, in the case of a motor vehicle (19) having two or more axles, a bottom hollow chamber sheet (1) arranged
- 15 between the axles is adjoined in the region of the axles by vertical, flanking hollow chamber sheets (4), the vertical sheets (4) being stiffened and/or connected to one another in the transverse direction of the vehicle by further hollow chamber sheets (15)
- 20 and/or struts.
  - 3. The chassis and/or supporting structure of a motor vehicle, in particular as claimed in claim 1 or 2, characterized in that within the chassis and/or the supporting structure (6) flow ducts (10) are formed between at least one inflow opening (2) on a front part of the vehicle and at least one outflow opening (3) at the rear (23) of the vehicle.
- 4. The chassis and/or supporting structure of a motor vehicle, as claimed in claim 3, characterized in that the outflow openings (3) at the rear (23) of the vehicle (19) are arranged and designed in such a manner that a dirtying of the rear (23) is reduced.

35

25

5. The chassis and/or supporting structure of a motor vehicle, as claimed in either of claims 3 and 4, characterized in that the outflow openings (3) at the

rear (23) of the vehicle (19) are arranged and designed in such a manner that air vortices at the rear (23) of the vehicle are reduced.

The chassis and/or supporting structure of a motor claimed in one of claims 3 5, vehicle. passenger cell characterized in that a (20)is ventilated and vented by the flow ducts (10) or by some of them.

10

7. The chassis and/or supporting structure of a motor vehicle, as claimed in one of claims 1 to 6, characterized in that the hollow chamber sheets (1, 4, 15) are designed as light metal elements.

15

8. The chassis and/or supporting structure of a motor vehicle, as claimed in one of claims 1 to 6, characterized in that the hollow chamber sheets (1, 4, 15) are designed as plastic elements.

20

9. The chassis and/or supporting structure of a motor vehicle, as claimed in one of claims 1 to 8, characterized in that the hollow chamber sheets (1, 4, 15) are designed as extruded profiles.

25

35

10. The chassis and/or supporting structure of a motor vehicle, as claimed in one of claims 1 to 8, characterized in that the hollow chamber sheets (1, 4, 15) are designed as built-up profiles, in particular of sheet metal.

30 sheet metal

- 11. The chassis and/or supporting structure of a motor vehicle, as claimed in one of claims 1 to 10, characterized in that the lifting effect of the vehicle (19) is reduced by the flow ducts (10) and/or the inflow and outflow openings (2, 3) thereof.
- 12. The chassis and/or supporting structure of a motor

vehicle, as claimed in one of claims 1 to 10, characterized in that downforce of the vehicle (19) is achieved by the flow ducts (10) and/or the inflow and outflow openings (2, 3) thereof.

5

10

13. The chassis and/or supporting structure of a motor vehicle, as claimed in one of claims 1 to 12, characterized in that the flow ducts (10) are of controllable design by means of flaps at the inflow and outflow openings (2, 3).